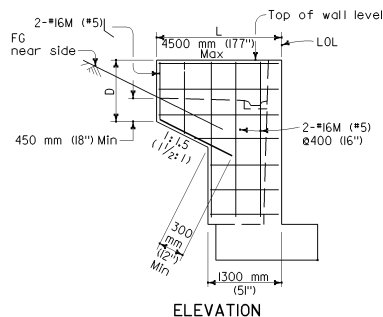
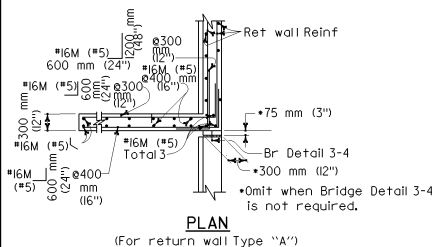
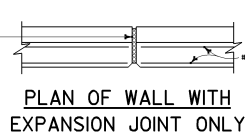
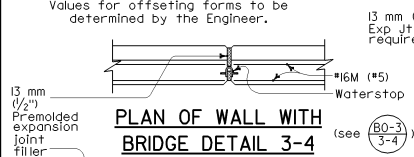


APPROXIMATE WALL OFFSET VALUES

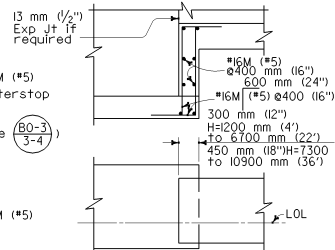
Not required for wall Types 3 and 4.
Values for offsetting forms to be
determined by the Engineer.



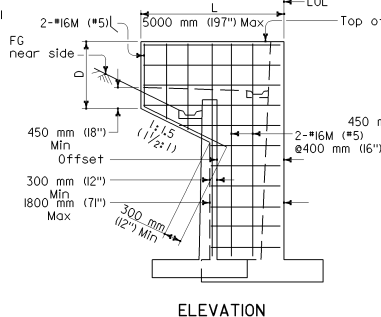
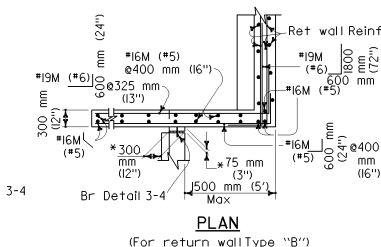
RETURN WALL TYPE "A"
Use where H=2400 mm (8') or less

8000 mm (26') VC AT TOP OF WALL SLOPE CHANGE

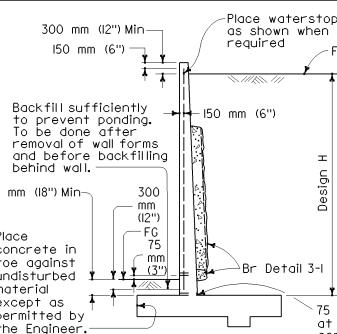
Where shown on the plans



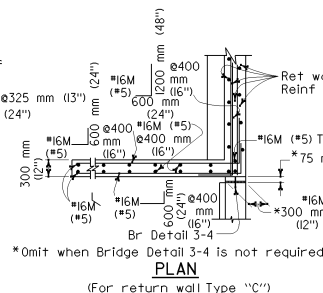
FOOTING ONLY



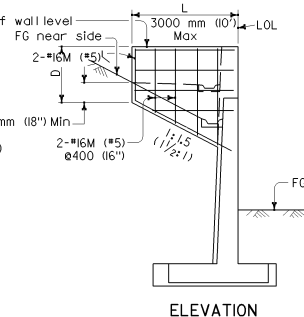
RETURN WALL TYPE "B"
Use where H=3000 mm (10') or more on offset walls



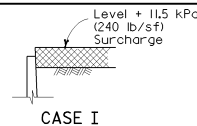
DESIGN AND DRAINAGE



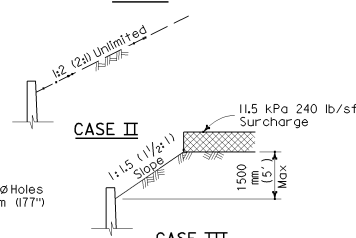
PLAN
(For return wall Type "C")



RETURN WALL TYPE "C"
Use where H=3000 (10') or more
on straight walls



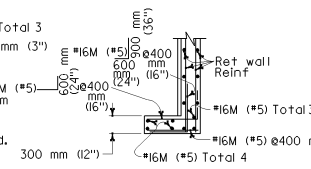
CASE I



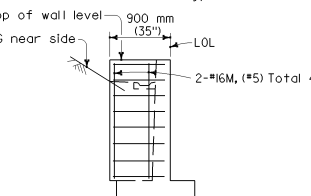
CASE II
**DETAIL OF DESIGN
LOADING CASES**

Case I Level + 11.5 kPa (240 lb/sf)
surcharge
Case II 1:2 (2H/1V) unlimited slope
Case III 1:1.5 (1 1/2H/1V) Limited slope
(5000 mm (5') max height)
+ 11.5 kPa (240 lb/sf) surcharge

NOTE: Surcharge Limits Shown Apply
To Retaining Walls Type I
and 3.



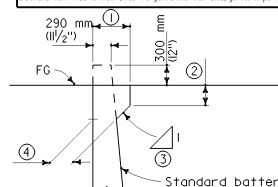
PLAN
(For return wall Type "D")



ELEVATION

RETURN WALL TYPE "D"
Use where H=1800 (6') or less

DIST	COUNTY	ROUTE	KILOMETER POST	SHEET	TOTAL
			TOTAL PROJECT	NO.	SHEETS
<p>Overcomer, Inc. REGISTERED CIVIL ENGINEER No. C45803 (111) DATE OF EXPIRATION: 12-31-02</p> <p>July 1, 2002 PLANS APPROVAL DATE</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p> <p>Caltrans now has a web site! To get to the web site, go to: https://www.dot.ca.gov</p>					



Dimensions ①, ② and ③ to be as shown elsewhere
in the Project Plans.

④ Stem width at base of haunch to be determined
as shown.

STEM WIDTH AT BASE OF HAUNCH

NOTES

Design Conditions:

Design H may be exceeded by 150 millimeters (6")
before going to the next size. Special
footing design is required where
foundation material is incapable of
supporting toe pressure listed
in table.

Return wall not required unless shown
elsewhere.

Design Data:

$f_c = 10 \text{ MPa (1450 psi)}$ $f_c = 25 \text{ MPa (3,600 psi)}$
 $f_s = 168 \text{ MPa (24,000 psi)}$
 $n = 10$ earth = 19 kN/m^3 (120 lb/cf)
11.5 kPa (240 lb/sf) surcharge:
Equivalent fluid pressure =

5.6 kPa/m (36 lb/sf/ft) maximum for
determination of toe pressure.

4.2 kPa/m (27 lb/sf/ft) minimum for
determination of heel pressure.

Earth pressures for 1:2 (2H/1V) unlimited slope,
1:1.5 (1 1/2H/1V) unlimited slope, determined from Rankine's formula
with $\phi = 33^\circ - 42^\circ$.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION RETAINING WALL DETAILS NO. 1

These "Standard Plans for Construction of Local Streets and Roads" contain units in two
systems of measurement: International System of Units (SI or "metric") and United States
Standard Measures shown in the parentheses (1). The measurements expressed in the
two systems are not necessarily equal or interchangeable. See the "Foreword" at the
beginning of this publication.

NO SCALE

B3-8